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38. A retroviral vector comprising an endonuclease site selected from the group consisting of HO endonuclease and Group I intron encoded endonuclease sites.

39. The retroviral vector of claim 38, wherein said endonuclease site is a Group I intron encoded endonuclease site.

40. The retroviral vector of claim 39, wherein said endonuclease site is selected from the group consisting of Class I I-endonuclease sites, Class II I-endonuclease sites, Class III I-endonuclease sites, Class IV I-endonuclease sites, and Class V I-endonuclease sites.

41. The retroviral vector of claim 40, wherein said endonuclease site is a Class I I-endonuclease site.

42. The retroviral vector of claim 41, wherein said endonuclease site is selected from the group consisting of I-SceI, I-SceIV, I-CsmI, and I-PanI sites.

43. The retroviral vector of claim 42, wherein said endonuclease site is an I-SceI site.

44. The retroviral vector of any of claims 38-43, wherein said retroviral vector is a Moloney Murine Leukemia Virus vector.

45. A recombinant mammalian chromosome comprising a Group I intron encoded endonuclease site.

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46. The recombinant chromosome of claim 45, wherein said endonuclease site is selected from the group consisting of Class I I-endonuclease sites, Class II I-endonuclease sites, Class III I-endonuclease sites, Class IV I-endonuclease sites, and Class V I-endonuclease sites.

47. The recombinant chromosome of claim 46, wherein said endonuclease site is a Class I I-endonuclease site.

48. The recombinant chromosome of claim 47, wherein said Class I I-endonuclease site is selected from *I-SceI*, *I-SceIV*, *I-CsmI*, and *I-PanI* sites.

49. The recombinant chromosome of claim 48, wherein said Class I I-endonuclease site is an *I-SceI* site.

50. The recombinant chromosome of any of claims 45-49, wherein said chromosome is a murine chromosome.

51. The recombinant chromosome of claim 50, wherein said chromosome is a mouse chromosome.

52. A recombinant mammalian cell comprising the recombinant chromosome of claim 45.

53. The recombinant cell of claim 52, wherein said endonuclease site is selected from the group consisting of Class I I-endonuclease sites, Class II I-endonuclease sites, Class III I-endonuclease sites, Class IV I-endonuclease sites, and Class V I-endonuclease sites.

54. The recombinant cell of claim 53, wherein said endonuclease site is a Class I I-endonuclease site.

55. The recombinant cell of claim 54, wherein said Class I I-endonuclease site is selected from I-*SceI*, I-*SceIV*, I-*CsmI*, and I-*PanI* sites.

56. The recombinant cell of claim 55, wherein said Class I I-endonuclease site is an I-*SceI* site.

57. The recombinant cell of any of claims 52-56, wherein said cell is a murine cell.

58. The recombinant cell of claim 57, wherein said murine cell is a mouse cell.

59. The recombinant cell of claim 57, wherein said murine cell is a murine stem cell.

60. The recombinant cell of claim 59, wherein said murine stem cell is a mouse stem cell.

61. (New) A recombinant mammalian chromosome comprising a Group I intron encoded endonuclease site, wherein the site is selected from the group consisting of an I-*SceIV* site, an I-*CsmI* site, I-*PanI* site, I-*SceII* site, an I-*CeuI* site, an I-*PpoI* site, an I-*SceIII* site, an I-*CreI* site, an I-*TevI* site, an I-*TevII* site, an I-*TevIII* site, and an I-*SceI* site.

62. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an I-*SceIV* site.

63. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an I-*CsmI* site.

64. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an I-*PanI* site.

65. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-SceII* site.

66. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-CeuI* site.

67. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-PpoI* site.

68. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-SceIII* site.

69. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-CreI* site.

70. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-TevI* site.

71. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-TevII* site.

72. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-TevIII* site.

73. (New) The recombinant mammalian chromosome of claim 61, wherein the site is an *I-SceI* site.

74. (New) The recombinant mammalian chromosome of any of claims 61-73, wherein the chromosome is a murine chromosome.

75. (New) The recombinant mammalian chromosome of any of claims 61-73, wherein the chromosome is a mouse chromosome.

76. (New) A recombinant cell comprising the recombinant chromosome of any of claims 61-73.

77. (New) A recombinant cell comprising the recombinant chromosome of claim 74.

78. (New) A recombinant cell comprising the recombinant chromosome of claim 75.

79. (New) The recombinant cell of claim 78, wherein the recombinant cell is a mouse stem cell.